

Atty. Docket No. DE920000090US1  
(590.160)

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. **(Currently Amended)** A method for operating a network coupling adapter attaching one or more computing device via an associated interconnected memory to either one of an I/O periphery, a network, or other computing devices, characterized by the steps of: operating a local memory being associated with the network coupling adapter as a cache memory relative to a system memory of the one or more computing device for storing transmission control information, such that transmission control information is cached in the local memory and wherein information other than transmission control information is stored in the system memory.

2. **(Original)** The method according to claim 1 further comprising the steps of using an InfiniBand Architecture.

3. **(Original)** The method according to the claim 1 further comprising the steps of using said transmission control for the processing of queues or queue pairs.

4. **(Original)** The method according to claim 2 further comprising the steps of using said transmission control for the processing of completion queues.

Atty. Docket No. DE920000090US1  
(590.160)

5. **(Original)** The method according to claim 2 further comprising the steps of using said transmission control for the processing of address translation and protection tables.

6. **(Original)** The method according to claim 2 further comprising the steps of using said local memory for connecting at least one computer device to a network.

7. **(Original)** The method according to claim 2 further comprising the steps of using said transmission control information for bundled per queue or queue pair.

8. **(Original)** The method according to claim 2 further comprising the steps of configuring said cache memory not to discard transmission control information for particular queues after casting-out.

9. **(Original)** The method according to claim 2 further comprising the step of writing said transmission control information to the local memory only before signaling the completion of a InfiniBand verb.

10. **(Original)** The method according to claim 2 further comprising the steps of using said previous step for connecting a plurality of I/O hardware devices associated with a computing device.

11. **(Original)** The method according to claim 2 further comprising the steps of using said previous step for providing communication channels for interprocess communication between a plurality of processes associated with one or more computing devices.

Atty. Docket No. DE920000090US1  
(590.160)

12. (Currently Amended) A network coupling element coupling one or more computing devices via an associated interconnected memory to either one of an I/O periphery, a network, or other computing devices characterized by comprising a local memory being operable as a cache memory relative to said interconnected memory of the computing device, such that transmission control information is cached in the local memory and information other than transmission control information is stored in the system memory.

13. (Currently Amended) The network coupling element for coupling one or more computing devices via an associated interconnected memory to an I/O periphery, and operates either as a Host Channel Adapter or a Target Channel Adapter being operable according the InfiniBand Architecture is characterized by comprising a local memory being operable as a cache memory relative to said interconnected memory of the one or more computing devices, such that transmission control information is cached in the local memory and ~~wherein~~ information other than transmission control information is stored in the system memory.

14. (Cancelled)